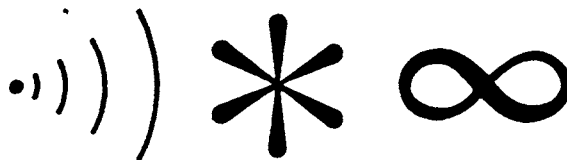


p·a·m

physics astronomy math



P-A-M Bulletin

Volume 17 No. 1

August 1989

MESSAGE FROM THE CHAIR

I would like to begin by thanking Judith Bausch deeply for the five years she has labored as Editor of the P-A-M Bulletin -- I did a shorter stint at it, and I can definitely appreciate the work that has gone into producing the attractive, informative, and reliable publication that she has given us.

Thanks, too, to the other outgoing officers, particularly Karen Croneis, who has served as Secretary for the past two years.

On behalf of those P-A-M members who were able to attend the Annual Conference in New York, and of the Division itself, I would like to thank the Workshop Leaders and Panel Moderators, the hospitality suite hostesses, and our Past Chair, Helen Knudsen, who arranged and orchestrated all the Division activities at the conference.

I would also like to welcome our new Editor, Dorothy McGarry, and the others who have agreed to serve the Division in one official capacity or another this year. It is a source of some bemusement to me that I should be writing material under this title for Dorothy McGarry to edit, because seven years ago it was the other way around. Dorothy inveigled me into joining this August Organization -- as well as the November, February, and May

BRUCE PELZ

Organization -- because she was going to be Chair and would need a Bulletin Editor. Now look!

I have no personal agenda for PAM's 1898-90 year -- I operate, as much as possible, on the KISS System: "Keep It Simple, Stupid." PAM seems to be doing very well, and if I don't get in its way it should continue to do so. Members should, however, feel free to let me know if they have concerns that should be presented to the SLA Administration -- I consider such representation to be part of the Chair's job.

The officers for this year, elected and appointed, are:

Chair: Bruce Pelz
Chair-Elect: Marlene Cummins
Secretary: Ellen Bouton
Treasurer: Cataleen Van Atta
Archivist: Jack Weigel
Bulletin Editor: Dorothy McGarry
Long-Range Planning Chair:
Brenda Corbin & Joyce Rey-Watson
Government Relations Chair: Karen
Croneis
Membership Chair: Helen Knudsen
Public Relations Chair: Heidi
Mercado
Career Guidance Chair: David
Stern

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Deadline for next issue: November 1, 1989

An Opportunity to Share SLA Headquarters

Let your information colleagues know the facts, trends, and theories you're unearthing ... As part of SLA's Research Program we would like to develop a mechanism for tracking all types of research within the special libraries community.

News of special librarians' research will be published in Special Libraries. The types of research we are seeking cover the spectrum from dissertations and academic research to "action" or applied research projects, studies, and investigations carried out in the workplace. If you are involved in a project of this nature, please share your work with your colleagues by sending a brief description of your project along with contact information to Tobi Brimsek, director, Research and Information Resources, SLA, 1700 Eighteenth Street NW, Washington, DC 20009.

Astronomy News

Ellen Bouton

Brenda got a response from Gert Kiers, Kluwer/Dordrecht to her letter about the

advertising of Long Term Evolution of Planetary Systems which did not state that it was a reprint from Celestial Mechanics. He apologizes for the recurrence of the problem with the advertising and again will try to get the proper people to be more attentive to this issue. He lists the following items that are/will be reprints from journals:

1. IAU Colloq. 109 - Computer Applications in Dynamical Astronomy and Celestial Mechanics (already published), reprinted from Celestial Mechanics vol. 45/1-3.
2. IAU Colloq. 104 - Solar and Stellar Flares, reprinted from Solar Physics, vol. 121 (due August 1989).
3. IAU Colloq. 107 - Algols (already published), reprinted from Space Science Reviews vol. 50/1-2.
4. Japan National Large Telescope Workshop, reprinted from Astrophysics and Space Science, volume number not yet known.
5. High-Energy Phenomena on the Sun (proceedings of a meeting in Tokyo), reprinted from Space Science Reviews, volume number not yet known.

Union List of Astronomy Serials

Judy Bausch

I have resumed work on the Union List of Astronomy Serials after a few month's rest; I am setting a tentative deadline of January 1, 1990, for the acceptance of new lists for inclusion in the second edition. (If you need more time than that, let me know.) I hope to have all material currently on hand into the computer in a few months, by October 1st at the latest. I will then print out a first draft and submit it to a few selected librarians for their scrutiny. I will then ask for clarification when there are inconsistencies in holdings. Please let me know as soon as possible if you intend to send your holdings, if you know of a librarian not a member of PAM who intends to send holdings, or if you are making any changes to your observatory's list of holdings in the first edition. Thanks for your cooperation. Judy Bausch, Yerkes Observatory, jab@kepler.yerkes.uchicago.edu, Fax: 414-245-9805, phone: 414-245-5555

Categories for the P-A-M Budget Survey

David Stern

Materials Funds

- Total
 - Physics
 - Astronomy
 - Math

- Periodicals
 - Physics
 - Astronomy
 - Math

- Contins/Standing Orders (if separate from Periodicals)
 - Physics
 - Astronomy
 - Math

- Monographs
 - Physics
 - Astronomy
 - Math

Do you use an approval plan?
If yes, amount approval vs. firm order by area.

Any other funds (i.e. Trusts, Dept gifts, etc.)

Online Funds

- Ready Reference
- Cost Recovery
- Other (flat-fee program limits, CD-ROM)

Student Worker Funds

Total dollars allocated (NOT SUPPORT STAFF)

Please complete and return to Dave.

Newsletter on Serials Pricing Issues

David Stern

The address to subscribe to the Newsletter on Serials Pricing Issues that was discussed at the P-A-M workshops: TUTTLE@UNC,BITNET. The Newsletter can be obtained via e-mail.

Note from Cathy Van Atta on Books Wanted

...

A follow-up to a notice in the May 1989 issue. On p. 29 was a notice saying Books

Wanted ... by the Third World Academy of Sciences, I wrote them about a series I am trying to get rid of and had this as part of their reply:

"With reference to your offer we would like to inform you that due to very high costs of shipping expenses, we have unfortunately decided to ask for journals from 1975 onwards and not before this date."

Might save someone the bother of writing about things they don't want.

SLA Fall Course Listing

October 10, Librarians: Leaders in Information Technology, Menlo Park, CA

October 13, Competitor Intelligence & the Corporate Librarian, Providence, RI

October 19-20, Going it Alone: Managing the One-Person Library, Indianapolis, IN

October 20, Making Money: Fees for Information Services, Pittsburgh, PA

November 2-3, Going it Alone: Managing the One-Person Library, Baltimore, MD

November 3, Competitor Intelligence & the Corporate Librarian, Philadelphia, PA

November 4, Management Communications in Special Libraries and Information Centers, Rockville, MD

November 17, Competitor Intelligence & the Corporate Librarian, Irvine, CA

Contact SLA for further information.

Physics Workshop

Paula Garrett

Alice Primack and Peter Cziffra organized the workshop. Peter Cziffra served as moderator for panel of speakers including Peter Young (Faxon), Judy Holoviak (American Geophysical Union and Society for Scholarly Publishing), and Robert Baensch (AIP). Topic covered was the pricing of journals, books, and serials.

Two articles on this subject which Peter Cziffra noted:

--Barschall, H. H. 1988. The

Physics Workshop (continued)
Cost-effectiveness of physics journals.

Physics Today 41(7):56-59.

--Barschall, H. H. and Arrington, J. R.
1988. Cost of physics journals: A survey.
Bulletin of the American Physical Society
33(7):1437.

Peter Young (Faxon): Distributed handout,
"Average Prepaid Subscription Prices,
1987-1989." His attempt was to show where
physics subscription prices fit with
relation to those in astronomy and
mathematics. The methodology of the price
analysis was questioned by workshop
participants. Some of the issues discussed
included:

--Use of average prices does not reflect
the range of prices.

--Use of median would be more appropriate.

--Need statement of objective behind the
compilation of these numbers.

--Does not distinguish between commercial
and not-for-profit publishers.

--Tracing the prices of a specific series
of titles over a period of time would be
more useful.

--Of more importance than average prices
and expected percentages of increase would
be information on what's being done by
publishers to keep prices down.

Young stated that the pricing information
he presented was meant to provide data for
budget planning purposes. He said this was
rudimentary research, not an analysis. He
referenced the following 2 articles:

--Periodical prices 1987-1989 update. The
Serials Librarian 14(1) for Sept. 1989. (In
press). Documents 8.23% increase for 1989.

--Young, Peter R. and Carpenter, Kathryn
Hammel. Price index for 1989: U.S.
periodicals. Library Journal. April 15,
1989, p.43-50 Documents 9.5% increase for
1989.

Judy Holoviak (American Geophysical Union
& Society for Scholarly Publishing): The
number of journals continues to grow. As
research money dries up, publications are
still required--they are part of the reward
system. Results of research must be
published--an important part of the whole
process. Tenure system is not the culprit.

Holoviak continued saying that subscription
prices rise faster than inflation, and that
the number of pages will not decrease.

Rates go up because of drops in library
subscriptions due to resource sharing. The
strong dollar might also increase prices
due to publishers' reliance on overseas
subscriptions. She emphasized that the
publishing world is strongly
competitive--that at the AGU they want to
keep good papers rather than have them go
into new journals.

Holoviak made suggestions to librarians:
--Participate in educating faculty to be
less wasteful in publication, careful in
choice of journals for submission, and to
support the library.

--Get involved in scientific organizations
to encourage partnerships with the library
and to develop evaluation mechanisms.

The Society for Scholarly Publishing
provides a neutral forum for publishers,
editors, authors, vendors, and librarians
involved in scholarly communication to
enhance that communication. Anyone
interested should contact Judy Holoviak.

Robert Baensch (AIP): Addressing the
information explosion, Baensch described it
as volume and content driven and technology
driven: --Volume and content driven due to
the dramatic increase in academic and
industrial research since World War I.
--Technology driven to accommodate the
proliferation of information. Microforms,
mainframe computers (heavy metal), storage
and retrieval systems, CD-ROM, etc.

The problem: How to finance increasing page
length when libraries are faced with
funding new technology? Increases in
government funding have been diverted
mainly to the military and defense.

The number of papers submitted for
publication has continued to increase over
the past ten years. Data for six major
physics archival journals reflect that in
four years, the number of papers has grown
from about 5,800 to 7,900 last year.

The number of pages per paper has
increased at a comparatively low rate until
last year. In 1984, there was a total of
about 34,000 pages for those six major
archival physics journals. That total has
grown to over 45,000 by 1988. Concerted
efforts to reduce the total to below 45,000
for 1989 have met with resistance from
reviewers and editors. Baensch contends
that recognition for authors is related to

Physics Workshop (continued)
frequency of citations, not article length.
The number of authors per paper has
increased.

Some of the views held by Judy Holoviak
were restated by Baensch -- increased
subscription prices reflect increased
operating expenses incurred by publishers.

The following additional issues were
presented:

--The federal government is in deep debt --
next year's deficit is predicted to be \$140
billion. Government funding of education,
research and related information services
will continue to be limited if not reduced.

--Enrollment in the academic community has
been on the decline. Academic institutions
are education/information driven but
economically restricted.

--In industry there has been a shift from
manufacturing to service.

Baensch continued, citing that from
1986-88, there have been 10,500 corporate
acquisitions and mergers worth \$800 billion
-- largely involving the British, German,
Dutch, and Japanese. In the attempt to
"earn back" some of this capital, price
increases are inevitable.

Publishers, according to Baensch, will not
take big risks of changing formats of
journals. AIP journals in online format
are not in the near future.

Workshop participants raised the issue of
the difficulties involved in confronting
university administrators, who are usually
not scientists, with price increases in
scientific publications. The pricing of
science journals appears to be out of
proportion with journals in other subject
areas.

There was discussion of page charges. A
number of publications have ceased these
"pay or perish" fees. It was noted that
some laboratories will not allow submission
to page charge journals. With page charge
journals, institutions often have to pay
twice -- subscription fees and page
charges.

Other ideas presented included the need for
more stringent referees of journals to cut

down on low-quality articles. The question
of raising standards was posed. Concern
was expressed, however, that judgment on
quality is too subjective a matter. And
ultimately, the economics of publishers,
academia, and science take precedence.

Stanford University and a group of
economists are embarking on a study of
prices. Eleanor Goodchild from Stanford
welcomes input.

Most of the workshop was dedicated to the
topic of journal pricing. Two other topics
briefly addressed:

--ARL study in the Chronicle of Higher
Education, May 24, 1989.

--Carol Hutchins made available handouts
for an end-user front-end used for
searching PHYS (Physics Briefs) on STN with
the AIP flat-fee program.

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FNAL::PGARRETT

Math News

Martha Murdoch

The Math Workshop was held on June 11. The
workshop, attended by about 35 people,
featured librarians' comments on AMS' new
CD-ROM, MATHSCI DISC. The panel included
Taissa Kusma, AMS; Martha Murdoch,
University of Washington; Carol Hutchins,
University of Indiana; and Cynthia Schabb,
Vanderbilt University. Dr. William Jaco,
new executive director of the AMS, spoke
first on new publishing programs at the
AMS. His comments will appear in the next
PAM issue.

First some background on MATHSCI DISC. It
was published in late March. The AMS has
received 30 firm orders so far; about six
of those at the workshop had it up and
running. The present disc which is almost
full has the complete records--bibl. cites,
reviews, and descriptors for all MR and CMP
records from 1/85-12/88. All words except
those in limit fields are searchable. The
disc does not include CIS or ACM records
which are in the online MATHSCI. A TeX
record formater is in Beta testing and

Math News (continued)
should be available with the July update. This along with PC TeX and AMSFonts will allow the user to convert the TeX-coded output to normal mathematical expression.

Taissa began the session by outlining the reasons why the AMS chose Silverplatter to produce MATHSCI DISC. High user satisfaction with existing products and good customer support were important requirements which narrowed the field to a choice of 2 or 3. The fact that Silverplatter already had a number of databases all using the same search software was a crucial factor. Its adjacency operator also was a necessity with MATHSCI's long reviews. Silverplatter has been very responsive to the AMS' needs and has redesigned the database to make it more flexible and retrieval more detailed. Taissa closed by welcoming all constructive criticism. If possible, improvements could be made in time for the January update.

Martha Murdoch then gave her review. The UW loaded MATHSCI on a Zenith AT with a Phillips player and HP Thinkjet printer. All equipment is in the public area and is locked down. The player is lockable. Thus the database is available 24 hours a day to faculty and students with keys. During May, half-hour demonstrations were given twice a week and on demand to help familiarize patrons with it. A keyboard template was designed to help users.

The advantages of the CD over the print MR include: its greatly increased number of access points; its user friendliness, especially for nonmathematicians; its faster access to the records; its ability to download or print results; and its highlighting of search term hits. The advantages over the online MATHSCI are: no pressure, unlimited searching; a fixed cost of \$1685 which equals about 23 hours of online searching; and a search system more user friendly than expert online searching yet just as flexible and powerful. In the past, only about 5 online searches were done per year; since April the CD has been used daily. All patrons using it have rated it very highly. Some disadvantages of the CD are: its cost in these times of budget constraints; its relatively short period of coverage; its exclusion of the CIS statistics records; and the fact that the lease agreement requires return of the disc if cancelled. Also a problem was

Silverplatter's command driven search software. There are no menus to lead the user. Users must spend time reading numerous screens to be able to search effectively. In particular, author searching is not easily done until the user invests some time. Also the database guide for MATHSCI is only available on screen and not in print. Patrons would like to be able to study it without tying up the computer. The Silverplatter guide and help screens are in print and on screen, but include only examples using PSYCHLIT--this is confusing to patrons. Martha suggested that MATHSCI DISC be made more user friendly, that a keyboard template might be helpful, and that back files and CIS records be added. She also is interested in putting it on the Math Dept.'s LAN, but is not sure how to go about doing it. Any suggestions?

At this point, Taissa explained that when pricing the CD, the AMS had a choice of lease or subscription. The subscription arrangement would have had a much higher price. The CD was designed to supplement MR, not replace it; thus the price break for AMS members and MR subscribers. As for its limited size, if only citations are put on the disc, a much longer time span could be issued. Taissa also noted that only records from 1980 on have machine-readable reviews. She also noted that a print MATHSCI chapter will be available in December and will be sent out. In the meantime, the AMS can provide a print out version upon request. Carol Hutchins spoke next and lauded MATHSCI DISC for its ease of use. She loaded it on an AT clone with Hitachi player and 2400 baud modem. She also offers online access to the PHYS database via STN's flat fee program on the same equipment. The computer is placed on a counter high table and the player is hidden beneath. Some cancellations of other indexes allowed her to afford MATHSCI DISC. Carol found it very easy to install by herself. It has been well received by faculty. She just posted a notice and has not offered any demonstrations since Indiana's semester ended in April. Searching is very fast--it took 2 minutes to get 27,000 PDE records. Carol has used it to get records for all books published since 1987 and to get vita for prospective visiting faculty. Carol feels that people can search by themselves except perhaps those with little computer experience. She would like to put it on a network to offer

Math News (continued)
wider campus access, but wonders about degradation of response time.

Cynthia Schabb, unfortunately, had only 6 minutes to give her comments as time was running out. However, she quickly described Vanderbilt's extensive holdings of compact discs throughout the library system. Vanderbilt has a special grant to purchase equipment and first year subscriptions to CDs. There are 9 Silverplatter products among the others in the system, so it is well liked there. In the Science Library, there are 2 Wilson disc products, 2 OCLC products, Compact Cambridge Life Sciences, and the CASSIS patent database. Each workstation has several products loaded on it, so Cynthia especially liked Silverplatter's easy exit to the menu screen vs. OCLC's. Of the many systems Cynthia has used, she thinks the Wilson products are the most user friendly, though not as powerful in the novice mode as Silverplatter. She suggested that Silverplatter offer a way to scroll displayed records line by line rather than the present PgUp-PgDown system which loses parts of the record. A manual specific to MathSci would be welcomed also. Cynthia has not yet offered demonstrations for MATHSCI DISC, but thinks it is definitely needed to get patrons to search it effectively.

**Special Libraries Association
Physics-Astronomy-Mathematics Division
Minutes, 1989 Annual Business Meeting
June 13, 1989, Hilton Hotel, New York**

Twenty-nine people attended the 1989 P-A-M Division Annual Business Meeting. Chair Helen Knudsen called the meeting to order and reviewed highlights from the 1988/89 annual report which was published in the P-A-M Bulletin.

Helen thanked Bruce Pelz, Chair-Elect, for his hard work in getting support for the division's hospitality suite. Helen reported that P-A-M is solvent and, according to Treasurer Cathy Van Atta, has a balance of \$3642.22 in the treasury.

Election of Officers

The following officers for 1989/91 were elected by acclamation: Chair-Elect/Chair: Marlene Cummins (University of Toronto); Secretary: Ellen Bouton (NRAO).

They will serve on the 1989/90 Executive Board with incoming Chair Bruce Pelz (UCLA), Treasurer Cathy Van Atta (Kitt Peak) and Past-Chair Helen Knudsen (Caltech).

International Involvement

The LISA Conference signaled new participation of P-A-M and SLA in the international arena. Helen will serve on an SLA advisory committee to strengthen this involvement. She then asked those present for their ideas and thoughts.

Nancy Anderson urged individuals to go to IFLA meetings. To find out about the organization and its structure, she suggested that people serve on a standing committee. Both Nancy and Dorothy McGarry are on standing committees.

Joyce Rey-Watson mentioned that there was an astronomy subsection gathering at the 1975 IFLA meeting and wondered if this group was still viable. In response to her question, Jack Weigel said that that group no longer existed.

The project by APS, ACS and others to coordinate exchange of surplus materials is stalled. However, individuals (like one physicist at Argonne) are trying to keep it going. More participants and more group support is needed. Using the P-A-M Bulletin was suggested as one means to alert those of duplicates.

Marlene Cummins discussed her "twinning project" in which one western librarian and one non-western librarian are paired. Any exchange of materials (books, journals, etc.) is an individual, one-to-one arrangement. Another person pointed out that U.S. librarians could and would exchange duplicates more effectively if there was some mechanism to accomplish that. At present, many just don't know how to handle the extra materials they receive.

Joyce Rey-Watson said that in many countries librarians have low status and, hence, there is a shortage of travel funds available to them. (The recent LISA Conference made this very clear.) She urged those present to encourage scientists to discuss this problem with their colleagues around the world. Librarians are professional people who need and deserve support from the world-wide scientific community.

Minutes (continued)

Additional comments should be directed to Helen who will share them with the advisory committee.

Proposed Recruitment Awards

Helen then discussed the proposed Chapter & Division Recruitment Awards that are supposed to be an incentive for groups to grow. This idea came up at the Winter Meeting and was attacked from many sides. Emily Mobley, monitor from the SLA Board, reminded the group that this was only one person's idea and not the result of any Board action. SLA does plan to do a member survey, however.

Nancy Gubman said that P-A-M is small but very active. However, we have to pay the same amount as larger divisions for equipment, rooms, etc. She suggested that there should be some prorating of fees. We are being penalized for our high level of activity. Emily agreed to take the concern to the Board.

Brenda Corbin made the point that, even if P-A-M did recruit actively, there is only a set number of physics, astronomy and mathematics librarians. We have pretty well gotten everyone we can.

Nancy Anderson also pointed out that the amount that SLA gave back to the divisions was not proportional to the dues increase last time.

Emily suggested that Bruce, as incoming chair, write a document to the SLA Board that addresses both past problems and the need to increase the base allotment by \$0.50 per member. The budget process begins in August.

P-A-M Division Award

Before presenting the award, Nancy Anderson thanked Cathy Greene and Martha Murdoch for their help in getting background information and supporting reviews for the Encyclopedic Dictionary of Mathematics.

Nancy then presented the 1989 P-A-M Division Award to the Mathematical Society of Japan for its outstanding work in producing the various editions of the Encyclopedic Dictionary of Mathematics. Professor Masatake Kuranishi, who is a professor of mathematics at Columbia University, accepted the award on behalf of

the Mathematical Society of Japan. The award, a framed certificate of appreciation, has not been given since 1986.

In his remarks, Professor Kuranishi thanked the P-A-M Division for the honor bestowed on the Society. He also said that the Society expected to be recognized by the mathematics community. However, they didn't expect to be recognized by librarians and they were particularly honored by the award.

Budget Information Clearinghouse

Nancy Anderson and Dorothy Manderscheid asked that P-A-M serve as a clearinghouse for materials funds budgets. Information on allocations for serials and monographs could be collected from various universities and made available to PAM members. Everyone needs this kind of data and a centralized clearinghouse would save a lot of time and energy. Dave Stern volunteered to set this up. He will develop a questionnaire, put it in the P-A-M Bulletin, and ask members to return completed forms to him.

Mary Kay said that the RLG working group list of journals for mathematics is nearing a final form.

Union List of Astronomy Serials (ULAS)

The second edition of ULAS is in limbo. Joyce Rey-Watson had hoped that it would take off at LISA. The next edition should make some attempt to include people at LISA. Brenda Corbin reported that Judy Bausch is still committed to the project. Bruce agreed to talk to Judy about updating and possibly expanding the publication. Members were urged to send updated lists to Judy.

Announcements

1. A discuss of "Thesaurus Rex" will be held during the Astronomy Workshop.
2. Nancy Gubman announced that the field trip to Forbes Gallery had been cancelled because not enough people signed up. She encouraged people to visit the Gallery anyhow.
3. Bruce asked members to pick up their copy of the P-A-M Division Membership Directory. (Copies will be sent to those members who were not able to attend.) Special thanks to the American Mathematical

Minutes (continued)

Society for its continuing support of the P-A-M Division and publication of the membership directory.

4. The field trip in Pittsburgh next year will be to the Allegheny Observatory and Buhl Planetarium.

5. Volunteers are needed to serve on committees for the P-A-M Division. Please contact Bruce if you are interested.

As outgoing chair, Helen said, "I wouldn't have missed a minute of serving as P-A-M Chair--and I wouldn't have prolonged it another minute either!" With that remark, the meeting was adjourned.

Respectfully submitted,

Karen S. Croneis
Secretary

Membership Report

Through May 1989

Prepared by Dorothy McGarry
1988/89 Membership Chair

New Members:

Sandra R. Moline, University of Minnesotas,
Mathematics Library, 206 Church St.,
Minneapolis, MN 55455 (612) 624-9395

Changes:

Donna J. Coletti, 14 Washburn St.,
Watertown, MA 02172

Cathy C. Green, 62 Willow Ridge Rd., North
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Dorothy Manderscheid--add bitnet address:
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Miriam D. Pierce--delete telephone number

Celine Walker--delete e-mail address

Jack Weigel -- Bitnet:
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Drops:

Nadja Adolf
Ann H. Beyer
Frances D. Campbell
Janet Dudley
Alice Hall
Susan E. Hill

Yvonne R. Hinks
J. Melanie H. Landry
Harry P. Llull
Cherl A. Reese
Elizabeth J. Singh
Ellen S. Thomas
Ronald C. Weber
Thomas R. Zogg

Information June-August

submitted by Bruce Pelz and Helen Knudsen:

add:

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Heidi Mercado, Eastern Michigan University,
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Joyce M. Rey-Watson--change to Joyce M.
Watson

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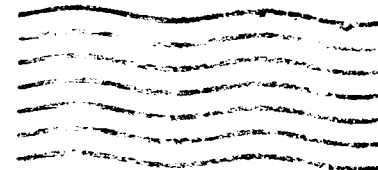
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